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DATE: 08/20/2004

PATENT APPLICATION: US/10/817,418

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 5 <120> TITLE OF INVENTION: GENE AMPLIFICATION AND OVEREXPRESSION IN CANCER
 7 <130> FILE REFERENCE: 38002-0071
 9 <140> CURRENT APPLICATION NUMBER: 10/817,418
 10 <141> CURRENT FILING DATE: 2004-04-05
 12 <150> PRIOR APPLICATION NUMBER: 60/462,702
 13 <151> PRIOR FILING DATE: 2003-04-15
 15 <160> NUMBER OF SEQ ID NOS: 23
 17 <170> SOFTWARE: PatentIn Ver. 3.2
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 20 <211> LENGTH: 3001
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81 <213> ORGANISM: Homo sapiens

83 <400> SEQUENCE: 2

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88 20 25 30
90 Gln Gln Leu Glu Leu Glu Arg Glu Arg Leu Arg Arg Glu Ile Arg Lys
91 35 40 45
93 Glu Leu Lys Leu Lys Glu Gly Ala Glu Asn Leu Arg Arg Ala Thr Thr
94 50 55 60
96 Asp Leu Gly Arg Ser Leu Gly Pro Val Glu Leu Leu Leu Arg Gly Ser
97 65 70 75 80
99 Ser Arg Arg Leu Asp Leu Leu His Gln Gln Leu Gln Glu Leu His Ala
100 85 90 95
102 His Val Val Leu Pro Asp Pro Ala Ala Thr His Asp Gly Pro Gln Ser
103 100 105 110
105 Pro Gly Ala Gly Gly Pro Thr Cys Ser Ala Thr Asn Leu Ser Arg Val
106 115 120 125
108 Ala Gly Leu Glu Lys Gln Leu Ala Ile Glu Leu Lys Val Lys Gln Gly
109 130 135 140
111 Ala Glu Asn Met Ile Gln Thr Tyr Ser Asn Gly Ser Thr Lys Asp Arg
112 145 150 155 160
114 Lys Leu Leu Leu Thr Ala Gln Gln Met Leu Gln Asp Ser Lys Thr Lys
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123 Gly Ala Val Glu Leu Arg Ile Glu Glu Leu Arg His His Phe Arg Val
124           210           215           220
126 Glu His Ala Val Ala Glu Gly Ala Lys Asn Val Leu Arg Leu Leu Ser
127 225           230           235           240
129 Ala Ala Lys Ala Pro Asp Arg Lys Ala Val Ser Glu Ala Gln Glu Lys
130           245           250           255
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136           275           280           285
138 Arg Glu Glu Leu Ala Ala Ala Ser Ser Ala Ala Phe Ser Thr Arg Leu
139           290           295           300
141 Ala Gly Pro Phe Pro Ala Thr His Tyr Ser Thr Leu Cys Lys Pro Ala
142 305           310           315           320
144 Pro Leu Thr Gly Thr Leu Glu Val Arg Val Val Gly Cys Arg Asp Leu
145           325           330           335
147 Pro Glu Thr Ile Pro Trp Asn Pro Thr Pro Ser Met Gly Gly Pro Gly
148           340           345           350
150 Thr Pro Asp Ser Arg Pro Pro Phe Leu Ser Arg Pro Ala Arg Gly Leu
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153 Tyr Ser Arg Ser Gly Ser Leu Ser Gly Arg Ser Ser Leu Lys Ala Glu
154           370           375           380
156 Ala Glu Asn Thr Ser Glu Val Ser Thr Val Leu Lys Leu Asp Asn Thr
157 385           390           395           400
159 Val Val Gly Gln Thr Ser Trp Lys Pro Cys Gly Pro Asn Ala Trp Asp
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163           420           425           430
165 Val Phe Trp Arg Asp Gln Arg Gly Leu Cys Ala Leu Lys Phe Leu Lys
166           435           440           445
168 Leu Glu Asp Phe Leu Asp Asn Glu Arg His Glu Val Gln Leu Asp Met
169           450           455           460
171 Glu Pro Gln Gly Cys Leu Val Ala Glu Val Thr Phe Arg Asn Pro Val
172 465           470           475           480
174 Ile Glu Arg Ile Pro Arg Leu Arg Arg Gln Lys Lys Ile Phe Ser Lys
175           485           490           495
177 Gln Gln Gly Lys Ala Phe Gln Arg Ala Arg Gln Met Asn Ile Asp Val
178           500           505           510
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181           515           520           525
183 Thr Gly Thr Phe Ser Pro Gly Ala Ser Pro Gly Ser Glu Ala Arg Thr
184           530           535           540
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196          595          600          605
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199          610          615          620
201 His Phe Gly Lys Val Leu Leu Ser Glu Phe Arg Pro Ser Gly Glu Leu
202 625          630          635          640
204 Phe Ala Ile Lys Ala Leu Lys Lys Gly Asp Ile Val Ala Arg Asp Glu
205          645          650          655
207 Val Glu Ser Leu Met Cys Glu Lys Arg Ile Leu Ala Ala Val Thr Ser
208          660          665          670
210 Ala Gly His Pro Phe Leu Val Asn Leu Phe Gly Cys Phe Gln Thr Pro
211          675          680          685
213 Glu His Val Cys Phe Val Met Glu Tyr Ser Ala Gly Gly Asp Leu Met
214          690          695          700
216 Leu His Ile His Ser Asp Val Phe Ser Glu Pro Arg Ala Ile Phe Tyr
217 705          710          715          720
219 Ser Ala Cys Val Val Leu Gly Leu Gln Phe Leu His Glu His Lys Ile
220          725          730          735
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232 785          790          795          800
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243 Leu Leu Arg Arg Asn Pro Glu Arg Arg Leu Gly Ser Ser Glu Arg Asp
244          850          855          860
246 Ala Glu Asp Val Lys Lys Gln Pro Phe Phe Arg Thr Leu Gly Trp Glu
247 865          870          875          880
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250          885          890          895
252 Gly Arg Thr Asp Val Ser Asn Phe Asp Glu Glu Phe Thr Gly Glu Ala
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263 <211> LENGTH: 2829

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265 <213> ORGANISM: Homo sapiens

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